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<p>(21) International application number: PCT/IB99/01719 (22) International filing date: 20 October 1999 (20.10.99) (30) Data relating to the priority: 98/13,283 20 October 1998 (20.10.98) FR (71) Applicant (for all designated States except US): UNIVERSITE JOSEPH FOURIER [FR/FR]; Boite postale 53, F-38041 Grenoble Cedex 9 (FR). (72) Inventors; and (75) Inventors/Applicants (US only): CAROL, Pierre [FR/FR]; Université Joseph Fourier, Génétique Moléculaire des Plantes, Cerno Boite Postale 53X, F-38041 Grenoble Cedex (FR). KUNTZ, Marcel [FR/FR]; Université Joseph Fourier, Génétique Moléculaire des Plantes, Cerno Boite Postale 53X, F-38041 Grenoble Cedex (FR). MACHE, Régis [FR/FR]; Université Joseph Fourier, Génétique Moléculaire des Plantes, Cerno Boite Postale 53X, F-38041 Grenoble Cedex (FR). (74) Representative: CABINET GERMAIN & MAUREAU; Boite postale 6153, F-69466 Lyon Cedex 06 (FR).</p>	<p>(81) Designated states: CA, IL, JP, US, European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With the International Search Report. Before expiry of the period provided for amending the claims, will be republished if such amendments are received.</p>	

As printed

(54) Title: cDNA SEQUENCE TRANSCRIBING A mRNA CODING FOR THE TERMINAL OXYDASE ASSOCIATED WITH CAROTENOID BIOSYNTHESIS AND USES

(54) Titre: SEQUENCE D'ADNc TRANSCRIVANT UN ARN^m CODANT POUR L'OXYDASE TERMINALE ASSOCIEE A LA BIOSYNTHESE DES CAROTENOIDES ET UTILISATIONS

(57) Abstract

The invention relates to a cDNA (complementary deoxyribonucleic acid) sequence represented by SEQ ID NO: 1, transcribing a mRNA (messenger deoxyribonucleic acid), itself coding for the TOC (terminal oxidase) associated with carotenoid biosynthesis, represented by SEQ ID NO: 2, and the complementary sequence of SEQ ID NO: 1, vectors comprising at least one of fragments of plant, and the method for modifying the production of carotenoids in a plant.

(57) Résumé

L'invention concerne une séquence d'ADNc (acide desoxyribonucléique complémentaire) représentée par SEQ ID NO: 1, transcrivant un ARN^m (acide désoxyribonucléique messager), lui-même codant pour l'enzyme TOC (Oxydase Terminale associée à la Biosynthèse des Caroténoïdes) représentée par SEQ ID NO: 2, ainsi que la séquence complémentaire de la SEQ ID NO: 1, des vecteurs de transformation et les procédés de modification de la production de caroténoïdes dans une plante.

1. The invention relates to a cDNA (complementary deoxyribonucleic acid) sequence represented by SEQ ID NO: 1, transcribing a mRNA (messenger deoxyribonucleic acid), itself coding for the TOC (terminal oxidase) associated with carotenoid biosynthesis, represented by SEQ ID NO: 2, and the complementary sequence of SEQ ID NO: 1, vectors comprising at least one of fragments of plant, and the method for modifying the production of carotenoids in a plant.